



## DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Agency Interest No. 1136  
Activity No.: PER20050035

Mr. G. N. Bucholtz  
General Manager  
Shell Chemical LP – Geismar Plant  
P. O. Box 500  
Geismar, Louisiana 70734

RE: Part 70 Operating Permit Renewal/Modification, Cogeneration Units, Geismar Plant, Shell Chemical LP, Geismar, Ascension Parish, Louisiana

Dear Mr. Rathweg:

This is to inform you that the permit renewal/modification for the above referenced facility has been approved under LAC 33:III.501. The submittal was approved on the basis of the application submitted and the approval in no way relieves the applicant of the obligation to comply with all the applicable requirements.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_\_ of \_\_\_\_\_, 2012, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and date of issue cited below and the AI No. 1136 should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2007.

Permit No.: 2729-VI

Sincerely,

Chuck Carr Brown, Ph.D.

Assistant Secretary

SGQ

c: US EPA Region VI

**ENVIRONMENTAL SERVICES**  
PO BOX 4313, BATON ROUGE, LA 70821-4313  
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**AIR PERMIT BRIEFING SHEET  
PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**GEISMAR PLANT, COGENERATION UNIT  
AGENCY INTEREST NO. 330  
SHELL CHEMICAL LP  
GEISMAR, ASCENSION PARISH, LOUISIANA**

**I. BACKGROUND**

Shell Chemical LP (Shell) owns and operates a chemical manufacturing complex located in Geismar. The facility, Cogeneration (Cogen) Unit, is a support unit for the other units at the complex. The permit incorporates all emission points at the Cogen Unit. The facility is currently operating under Part 70 Operating Permit No. 2729-V0 and Prevention of Significant Deterioration Permit No. PSD-LA-647(M-1) both dated June 26, 2001. The facility was granted an Administrative Amendment dated December 22, 2003.

**II. ORIGIN**

A permit application and Emission Inventory Questionnaire (EIQ) dated December 21, 2005 were submitted requesting a Part 70 operating permit renewal/modification for the Cogen Unit. Additional information as of March 14, 2007 was also received.

**III. DESCRIPTION**

Shell operates a Cogen Unit having two 40 megawatt cogeneration facilities. These facilities provide necessary steam and electricity requirements to the Geismar Plant.

Shell proposes to incorporate the following modification to the Cogen Unit and the permit:

1. Update the fugitive emissions based on fugitive components count assessment;
2. New piping and associated with the proposed combustion of butene as fuel in the cogeneration duct burners and updated fugitive component count;
3. Update emissions based on emission calculation methodology and source specific information;
4. Update the Insignificant Activity Source list;
5. Update the General Condition XVII list;
6. Incorporate minor changes based on a Letter of No Objection dated November 4, 2005 (allows use of ethane to supplement natural gas); and
7. Incorporate the current promulgated regulatory requirements.

Shell is proposing to add the capability for the combustion of butene fuel in the Cogen Unit, duct burners. This change will allow Shell to reduce the amount of purchased

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natural gas by supplementing with a less expensive fuel. This change will require the addition of piping and associated fugitive components. There will not be any change in the permitted emissions of the duct burners due to existing add on control device (selective catalytic reduction, SCR) for NOx. The SCR was installed under the PSD Permit No. PSD-LA-647(M-1) dated June 26, 2001. Other criteria pollutant emissions will not change due the utilization of butene as fuel.

SCR were determined as Best Available Control Technology (BACT) for NOx emissions with a NOx limit of 5 ppmv with natural gas and produced butene as fuel. Good combustion practices with no controls for PM10 and good combustion practices with a CO emission limit of 10 ppmv from the duct burners at 15 percent oxygen with natural gas and butane as fuel is considered as BACT.

There will not be any increase in butene production at the facility. On the other hand, the facility will reduce its export of butene and will utilize it internally as fuel for the Cogen Unit, duct burners.

Permitted emissions from the Cogeneration Units in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	91.80	91.80	-
SO <sub>2</sub>	3.80	16.04	+ 12.24
NO <sub>x</sub>	117.42	117.42	-
CO	357.40	357.40	-
VOC*	52.71	58.00	+ 5.29

\* Increase is not due to any modification

**IV. TYPE OF REVIEW**

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, National Emission Standards for Hazardous Air Pollutants (NESHAP), New Source Performance Standards (NSPS), Prevention of Significant Deterioration (PSD) including Nonattainment New Source Review (NNSR), and Compliance Assurance Monitoring (CAM).

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This facility is part of a major source of toxic air pollutants. The Air Toxic Compliance Plan was approved January 8, 1996.

Shell Chemical LP, Geismar Plant as a whole is classified under Synthetic Organic Chemical Manufacturing Industry, "SOCMI". Standards are established for these facilities in New Source Performance Standards (NSPS); 40 CFR 60 – Subpart NNN (Standards of Performance for VOC Emissions from SOCMI Distillation Operations), Subpart RRR (Standards of Performance fro VOC Emissions from SOCMI Reactor Processes), Subpart VV (Standards of Performance fro Equipment Leaks of VOC in the SOCMI),. The units may meet the requirements for exemption from the above referenced regulations. NSPS; 40 CFR 60 – Subpart Kb (Standards of Performance fro Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984); National Emission Standards For Hazardous Air Pollutants (NESHAP) for Sources Categories; 40 CFR 63 – Subpart F (National Emission Standards for Organic Hazardous Air Pollutants From the SOCMI), Subpart G (National Emission Standards for Organic Hazardous Air Pollutants From the SOCMI for Process Vents, Storage Vessels, Transfer Operations, and Wastewater), Subpart H (National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks); 40 CFR 64 (Compliance Assurance Monitoring), 40 CFR 64 - Compliance Assurance Monitoring; 40 CFR 68 – Chemical Accident Prevention Provisions; 40 CFR 82 –Subpart B & F (Protection of Stratospheric Ozone). The Geismar Plant is a major source of toxic air pollutants and must comply with all the applicable requirements of LAC 33:III.Chapter 51 – Comprehensive Toxics Air Pollutant Emission Control Program. Shell meets the MACT requirements and shall report annual emissions per LAC 33:III.5107. Shell complies with NESHAP, 40 CFR 61 – Subpart FF (National Emission Standard fro Benzene Waste Operations).

**V. CREDIBLE EVIDENCE**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions

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limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. PUBLIC NOTICE**

A notice requesting comments on the proposed permit was published in The Advocate, Baton Rouge, Louisiana on June 27, 2005 and Gonzales Weekly, Gonzales, Ascension Parish, Louisiana on \*\*\*\*, 2007, and the mail out was done on \*\*\*\*, 2007. All comments received from the public and organizations during the comment period will be considered before a final action is taken on the proposed permit. The proposed permit was also submitted to US EPA Region VI via e-mail on \*\*\*\*, 2007.

**VII. EFFECTS ON AMBIENT AIR**

Dispersion Model(s) Used: None

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Air Quality Standard (NAAQS)
NA			

**VIII. GENERAL CONDITION XVII ACTIVITIES**

Activity	Frequency Hr/Yr	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>X</sub>	CO	VOC	OTH
		TPY					
Cogeneration Unit Startup (COGENSUSD-1 & 2)	8 events/ yr 24 hr/yr	0.13	-	0.50	0.50	-	-
Cogeneration Unit Shutdown (COGENSUSD-1 & 2)	8 events/ yr 24 hr/yr	0.13	-	0.50	0.50	-	-
Temporary Large Fuel Fired Equipment (Maintenance)	600 hr/yr	0.33	0.31	4.65	1.00	0.38	-
Temporary Small Fuel Fired Equipment (Maintenance)	6000 hr/yr	0.33	0.31	4.65	1.00	0.38	-

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**IX. INSIGNIFICANT ACTIVITIES**

<u>ID No.:</u>	<u>Description</u>	<u>Citation</u>
-	Lube Oil System	LAC 33:III.501.B.5.B.16
-	Caustic Tank (10,000 gal)	LAC 33:III.501.B.5.B.40

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**LOUISIANA REFINING DIVISION, COMBUSTION SOURCES**

AGENCY INTEREST NO. 3165

MARATHON ASHLAND PETROLEUM LLC

GARYVILLE, ST. JOHN THE BAPTIST PARISH, LOUISIANA

**X. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III Chapter																	
		5 ▲	9	11	13	15	2103	2107	2108	2111	2115	2122	2131	2301	29*	51*	53	56	59
GRP056	Cogeneration Unit		1	1	1	1					2			1	1	1	1	1	1
EQT553	720-99, Cogeneration Unit No. 1			1	1	1									2				
EQT554	721-99, Cogeneration Unit No. 2			1	1	1									2				
FUG015	702-00, Fugitive Emissions						1												

**KEY TO MATRIX**

- 1 - The regulations have applicable requirements which apply to this particular emission source.  
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.  
Blank - The regulations clearly do not apply to this type of emission source.

\* The regulations indicated above are State Only regulations.

- ▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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**XI. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Status	Citation	Explanation
EQT553 and EQT554 Cogeneration Unit 1 and 2 720-99 and 721-99	Comprehensive Toxic Air Pollutant Emission Control Program	Exempt	LAC 33.III.5105.B.3.a	Burns natural gas which is considered as a virgin fossil fuel
40 CFR 63, Subpart YYYY – National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines	Does not apply	40 CFR 63.6080(b)(4)		Existing stationary combustion turbines do not have to meet any requirements
40 CFR 63, Subpart DDDDD – National Emission Standards for HAPs for Industrial, Commercial, and Institutional Boilers and Process Heaters	Does not apply	40 CFR 63.7506(b)(3) 40 CFR 63.9(b)		Initial notification dated March 8, 2005 was submitted – Units are existing large gaseous fuel units
FUG015 Fugitive Emissions 702-00	Fugitive Emission Control for Ozone Nonattainment Areas and Specified Parishes	Does not apply	LAC 33.III.2122.A.1	Not a SOCMI process unit

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit

## 40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
  1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
  2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];

## 40 CFR PART 70 GENERAL CONDITIONS

3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
  4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit. [Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year.

## 40 CFR PART 70 GENERAL CONDITIONS

[LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]

- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
  1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
  4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
  5. changes in emissions would not qualify as a significant modification; and
  6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]

## **40 CFR PART 70 GENERAL CONDITIONS**

- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
    - a. Report by June 30 to cover January through March
    - b. Report by September 30 to cover April through June
    - c. Report by December 31 to cover July through September
    - d. Report by March 31 to cover October through December
  4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;

## **40 CFR PART 70 GENERAL CONDITIONS**

2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.
- The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]
- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated October 14, 1996 and a revised and updated application and EIQ dated December 21, 2005; and additional information as of March 14, 2007.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.  
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

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- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:

1. Report by June 30 to cover January through March
  2. Report by September 30 to cover April through June
  3. Report by December 31 to cover July through September
  4. Report by March 31 to cover October through December
- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
  2. Cause of noncompliance;
  3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
  4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
  5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
  - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
  - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
  - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.

- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
  2. Be less than the minimum emission rate (MER)
  3. Be scheduled daily, weekly, monthly, etc., or
  4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]
- These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.
- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302

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Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

**General Information****AI ID:** 1136 Shell Chemical Co - Geismar Plant**Activity Number:** PER20050035**Permit Number:** 2729-V1**Air - Title V Regular Permit Renewal**

Also Known As:	ID	Name	User Group	Start Date
	LA05258	ADVF #	Asbestos	04-14-2003
0180-00010		Shell Chemical Co - Geismar Plant	CDS Number	08-22-2002
0180-0010		Shell Chemical Co - Geismar Plant	Emission Inventory	02-25-2004
13-12998890		Federal Tax ID	Federal Tax ID	11-21-1999
LAD003913183		Shell Chemical Co - Geismar Plant	Hazardous Waste Notification	09-02-1983
LAD003913183		Shell Chemical Co - Geismar Plant	Inactive & Abandoned Sites	06-09-1981
LA0005754		LPDES #	LPDES Permit #	06-25-2003
WP1347		LWDPS #	LWDPS Permit #	06-25-2003
		Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
		Radioactive Material License	Radiation License Number	05-26-1987
	LA-2132-L-01	X-Ray Registration Number	Radiation X-ray Registration Number	11-21-1999
2132		Site ID #	Solid Waste Facility No.	11-21-1999
G-005-1740		Shell Chemical Co Geismar Works	TEMPO Merge	01-19-2001
17631		Shell Chemical LP - Geismar	TEMPO Merge	08-05-2001
34601		Shell Chemical Co	TEMPO Merge	08-05-2001
38774		Shell Chemical Co	TEMPO Merge	03-08-2001
47981		Shell Chemical Co	TEMPO Merge	08-05-2001
67594		Shell Chemical Co	Toxic Emissions Data Inventory #	01-01-1991
0180-0010		Toxic Emissions Data Inventory #	Toxic Release Inventory	07-19-2004
70737SHLLCRIVER		TRI #	Underground Storage Tanks	10-11-2002
03-008346		UST Facility ID #		
		7594 Hwy 75 Geismar, LA 70734	Main Phone:	2252016222
		PO Box 500 Geismar, LA 707340500		
		30° 11' 6" 5 hundredths latitude, 90° 59' 15" 40 hundredths longitude, Coordinate Method: GPS Code (Pseudo Range) Differential, Coordinate Datum: NAD83		
Related People:	Name	Mailing Address	Phone (Type)	Relationship
Anne Adrian	Anne Adrian	7594 Hwy 75 Geismar, LA 70737	2252016324 (WP)	Water Permit Contact For
Anne Adrian	Anne Adrian	7594 Hwy 75 Geismar, LA 70737	2252016324 (WP)	Asbestos Contact for
Anne Adrian	Anne Adrian	7594 Hwy 75 Geismar, LA 70737	2252016324 (WP)	Water Billing Party for
Leo R. Broering		PO Box 500 Geismar, LA 707340500	2252016207 (WP)	Responsible Official for
Gerald G. Brouillette		PO Box 500 Geismar, LA 707340500	2252016030 (WF)	Accident Prevention Billing Party for
Gerald G. Brouillette		PO Box 500 Geismar, LA 707340500		Accident Prevention Billing Party for

## General Information

AI ID: 1136 Shell Chemical Co - Geismar Plant

Activity Number: PER20050035

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Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Robert E. Evans	PO Box 500 Geismar, LA 707340500	2252016456 (WP)	Radiation Safety Officer for
	Robert E. Evans	PO Box 500 Geismar, LA 707340500	2252016456 (WP)	Radiation Contact For
	Kathleen M. Garey	PO Box 500 Geismar, LA 707340500	2252016782 (WP)	Accident Prevention Contact for
	Kathleen M. Garey	PO Box 500 Geismar, LA 707340500	2252016482 (WF)	Accident Prevention Contact for
	Greg Kamla	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Air Permit Contact For
	Keith S. Miller	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Hazardous Waste Permit Contact For
	Keith S. Miller	PO Box 500 Geismar, LA 707340500	2252016030 (WF)	Hazardous Waste Permit Contact For
Related Organizations:	Name	Address	Phone (Type)	Relationship
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	UST Billing Party for
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Owns
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Operates
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Air Billing Party for
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Radiation Registration Billing Party for
	Shell Chemical LP	PO Box 500 Geismar, LA 707340500	2252016247 (WP)	Radiation License Billing Party for

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

## INVENTORIES

AI ID: 1136 - Shell Chemical Co - Geismar Plant  
 Activity Number: PER20050035  
 Permit Number: 2729-V1  
 Air - Title V Regular Permit Renewal

### Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT553	720-99, Cogeneration Unit No. 1		40 MW	40 MW		8760 hr/yr (All Year)
EQT554	721-99, Cogeneration Unit No. 2		40 MW	40 MW		8760 hr/yr (All Year)
FUG015	702-00, Fugitive Emissions					8760 hr/yr (All Year)

### Subject Item Groups:

ID	Description	Included Components (from Above)
GRP056	Cogeneration Unit	EQT553 720-99, Cogeneration Unit No. 1
GRP056	Cogeneration Unit	EQT554 721-99, Cogeneration Unit No. 2
GRP056	Cogeneration Unit	FUG15 702-00, Fugitive Emissions

### Relationships:

### Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT553	720-99, Cogeneration Unit No. 1	71	163944	10	100	280
EQT554	721-99, Cogeneration Unit No. 2	71	163944	10	100	280
FUG015	702-00, Fugitive Emissions					

### Fee Information:

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
GRP056	1	MM Lb/Yr	0630 - Organic Oxides, Alcohols, Glycols (Rated Capacity)

## EMISSION RATES FOR CRITERIA POLLUTANTS

All ID: 1136 - Shell Chemical Co - Geismar Plant  
Activity Number: PER20050035  
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Air - Title V Regular Permit Renewal

### All phases

Subject Item	PM <sub>10</sub>			SO <sub>2</sub>			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 553 720-99	10.50	10.80	45.90	1.83	1.95	8.02	13.41	14.50	58.71	40.80	44.00	178.70	5.70	6.20	25.00
EQT 554 720-99	10.50	10.80	45.90	1.83	1.95	8.02	13.41	14.50	58.71	40.80	44.00	178.70	5.70	6.20	25.00
FUG 015 702-90													1.83		

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

### Permit Phase Totals:

PM10: 91.80 tons/yr  
SO2: 16.04 tons/yr  
NOx: 117.42 tons/yr  
CO: 357.40 tons/yr  
VOC: 58.00 tons/yr

### Emission rates Notes:

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20050035

Permit Number: 2729-V1

Air - Title V Regular Permit Renewal

### All phases

Ammonia			Formaldehyde			Toluene			Xylene (mixed isomers)			n-Hexane		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Avg lb/hr	Max lb/hr	Tons/Year
EQT 553 720-99	9.91	10.70	43.40	0.37	0.40	1.60								
EQT 554 720-99	9.91	10.70	43.40	0.37	0.40	1.60								
FUG 015 702-00	0.07		0.32				0.001		0.01	0.001		0.01	0.07	0.31

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

### Permit Parameter Totals:

Ammonia: 87.12 tons/yr

Formaldehyde: 3.20 tons/yr

n-Hexane: 0.31 tons/yr

Toluene: 0.01 tons/yr

Xylene (mixed isomers): 0.01 tons/yr

### Emission Rates Notes:

## SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant  
Activity Number: PER20050035

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Air - Title V Regular Permit Renewal

### EQT553 720-99, Cogeneration Unit No. 1

- 1 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]  
Which Months: All Year Statistical Basis: None specified
- 2 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7. [LAC 33:III.1305]
- 3 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]  
Which Months: All Year Statistical Basis: Six-minute average
- 4 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]  
Which Months: All Year Statistical Basis: None specified
- 5 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 6 Conduct a performance/emissions test. Due within 180 days from the issuance date of this permit. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60.45b for Sulfur Dioxide emissions; 40 CFR 60.46b for Nitrogen Oxides and Particulate Matter emissions. Use of alternate stack test methods or waiver from the testing requirements only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 7 All the pollutant emission rates and concentrations data limits as specified shall be monitored at the downstream SCR stack (control device). [LAC 33:III.501.C.6]
- 8 Gas Turbine: Carbon monoxide <= 0.08 lb/MMBTU CO concentration shall be controlled to 15 ppmv at 15% oxygen with or without the duct burners during normal operations. [40 CFR 52.21, LAC 33:III.509]
- 9 Duct Burners: Carbon monoxide <= 0.16 lb/MMBTU CO concentration shall be controlled to 10 ppmv at 15% oxygen during normal operations. [40 CFR 52.21, LAC 33:III.509]
- 10 Gas Turbine: Nitrogen oxides <= 0.03 lb/MMBTU NO<sub>x</sub> concentration shall be controlled to 5 ppmv at 15% oxygen with or without the duct burners during normal operations. [LAC 33:III.509, 40 CFR 52.21]  
Which Months: All Year Statistical Basis: Three-hour rolling average
- 11 Duct Burners: Nitrogen oxides <= 0.052 lb/MMBTU. [LAC 33:III.509, 40 CFR 52.21]  
Which Months: All Year Statistical Basis: Annual average
- 12 Duct Burners: Particulate matter (10 microns or less) <= 0.041 lb/MMBTU. [LAC 33:III.509, 40 CFR 52.21]  
Which Months: All Year Statistical Basis: Annual average
- 13 Gas Turbine: Particulate matter (10 microns or less) <= 0.02 lb/MMBTU. [40 CFR 52.21, LAC 33:III.509]  
Which Months: All Year Statistical Basis: Three-hour rolling average
- 14 Fuel sulfur content <= 0.8 % by weight (8000 ppmw) for any fuel burned. Subpart GG. [40 CFR 60.333(b)]  
Which Months: All Year Statistical Basis: None specified
- 15 CMS is not required. Shell shall monitor fuel per the requirements of custom schedule monitoring as approved by U.S. EPA per letter dated November 25, 2002. Shell shall establish the custom schedule monitoring for butene as fuel. Subpart GG. [40 CFR 60.334(h)(4)]

## SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20050035

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Air - Title V Regular Permit Renewal

### EQT553 720-99, Cogeneration Unit No. 1

- 16 Submit quarterly excess emissions report: Due by the 30th day following the end of each calendar quarter. Report periods during which an exemption provided in 40 CFR 60.332(f) is in effect. Report the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated. Subpart GG. [40 CFR 60.334(j)(3)]
- 17 Include each period during which an exemption provided in 40 CFR 60.332(k) is in effect in the report required in 40 CFR 60.7(c). For each period, report the type, reasons, and duration of the firing of the emergency fuel. Subpart GG. [40 CFR 60.334(j)(4)]
- 18 Submit excess emissions reports and monitor downtime in accordance with 40 CFR 60.7(c). Report excess emissions for all periods of unit operation, including startup, shutdown and malfunction. Subpart GG. [40 CFR 60.334(j)]
- 19 Determine compliance using the test methods and procedures specified in 40 CFR 60.335(a) through (c). Subpart GG. [40 CFR 60.335]
- 20 Shell shall burn pipeline quality natural gas and butene as fuel in the Cogeneration Unit No. 1 and shall comply with the Custom Fuel Monitoring Schedule Conditions approved by U.S. EPA dated November 25, 2002. Shell shall comply with the following: a) shall conduct sample analysis twice per annum during the first and third quarter of each calendar year; b) should any sulfur analysis as required under 40 CFR 60.333(b), Shell shall notify the Office of Environmental Compliance, Enforcement Division. The custom schedule shall be re-examined. Sulfur content monitoring shall be conducted weekly during the interim period of custom schedule re-examination; Record of sample analysis and fuel supply pertinent to this custom schedule shall be retained for a period of three years and available for inspection by the Office of Environmental Compliance, Surveillance Division; and c) if there is a change in fuel supply or supplier, Shell shall sample the fuel daily for a period of two weeks to re-establish the sulfur content and indicate compliance with 40 CFR 60.333(b) and the custom schedule. Subpart Db. [40 CFR 60.40b, 40 CFR 60.334(h)(4)]
- 21 Demonstrate the maximum design heat input capacity of the steam generating unit by operating the steam generating unit at this capacity for 24 hours. If the 24-hour average firing rate is less than the maximum design capacity provided by the manufacturer, use the 24-hour average firing rate to determine the capacity utilization rate, otherwise use the maximum design capacity provided by the manufacturer. Subpart Db. [40 CFR 60.45b(e)]
- 22 Determine compliance with the NOx standards in 40 CFR 60.44b through performance testing under 40 CFR 60.46b(e) or (f), or under 40 CFR 60.46b(g) or (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]
- 23 Determine compliance with the NOx emission limit of 0.03 lb/MM BTU for Gas Turbine without the Duct Burner on a "steam generating unit operating day" average basis as defined in 40 CFR 60.41b (which means a 24-hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time in the steam generating unit and it is not necessary for fuel to be combusted continuously for the entire 24-hour period) instead of the 30-day rolling average basis specified in 40 CFR 60.44b(i), to be determined downstream of SCR;
- Maintain records of fuel fired and NOx emissions, not to exceed 0.052 lb/MM BTU, for each duct burner on a "one-hour period" basis as defined in 40 CFR 60.2 (which means any 60-minute period commencing on the hour) and a "steam generating unit operating day" average basis instead of the records specified in 40 CFR 60.49b(d) and (g); and
- Report excess emissions in accordance with 40 CFR 60.49b(h) and (w) when NOx emissions exceed the 0.03 lb/MM BTU limit on a "steam generating unit operating day" average basis for the Gas Turbine and a 0.052 lb/MM BTU for the Gas Turbine and the Duct Burner combined. Subpart Db. [40 CFR 60.48b(g)(2)]
- 24 Operate NOx monitoring systems and record data during all periods of operation of the affected facility as approved under the requirements of 40 CFR 60.48b(g)(2). Subpart Db. [40 CFR 60.48b(g)(2)]
- 25 Comply with the provisions of 40 CFR 60.48b(b), (c), (d), (e)(2), (e)(3), and (f), or monitor steam generating unit operating conditions and predict nitrogen oxides emission rates as specified in a plan submitted pursuant to 60.49b(c). Subpart Db. [40 CFR 60.48b(g)]

### EQT554 721-99, Cogeneration Unit No. 2

## SPECIFIC REQUIREMENTS

AI ID: 1136 - Shell Chemical Co - Geismar Plant

Activity Number: PER20050035

Permit Number: 2729-V1

Air - Title V Regular Permit Renewal

### EQT554 721-99, Cogeneration Unit No. 2

- 26 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 27 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7. [LAC 33:III.1305]
- 28 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
- Which Months: All Year Statistical Basis: Six-minute average
- 29 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
- Which Months: All Year Statistical Basis: None specified
- 30 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 31 Conduct a performance/emissions test: Due within 180 days from the issuance date of this permit. The stack test's purpose is to demonstrate compliance with the emission limits of this permit. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60.45b for Sulfur Dioxide emissions; 40 CFR 60.46b for Nitrogen Oxides and Particulate Matter emissions. Use of alternate stack test methods or waiver from the testing requirements only with the prior approval of the Office of Environmental Assessment, Environmental Technology Division, Engineering Services. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits. [LAC 33:III.501.C.6]
- 32 All the pollutant emission rates and concentrations data limits as specified shall be monitored at the downstream SCR stack (control device). [LAC 33:III.501.C.6]
- 33 Gas Turbine: Carbon monoxide <= 0.08 lb/MMBTU CO concentration shall be controlled to 15 ppmv at 15% oxygen with or without the duct burners during normal operations. [40 CFR 52.21, LAC 33:III.509]
- Which Months: All Year Statistical Basis: Three-hour rolling average
- 34 Duct Burners: Carbon monoxide <= 0.16 lb/MMBTU CO concentration shall be controlled to 10 ppmv at 15% oxygen during normal operations. [40 CFR 52.21, LAC 33:III.509]
- Which Months: All Year Statistical Basis: Annual average
- 35 Gas Turbine: Nitrogen oxides <= 0.03 lb/MMBTU NO<sub>x</sub> concentration shall be controlled to 5 ppmv at 15% oxygen during normal operations. [40 CFR 52.21, LAC 33:III.509, 40 CFR 52.21]
- Which Months: All Year Statistical Basis: Three-hour rolling average
- 36 Duct Burners: Nitrogen oxides <= 0.052 lb/MMBTU. [LAC 33:III.509, 40 CFR 52.21]
- Which Months: All Year Statistical Basis: Annual average
- 37 Duct Burners: Particulate matter (10 microns or less) <= 0.041 lb/MMBTU. [LAC 33:III.509, 40 CFR 52.21]
- Which Months: All Year Statistical Basis: Annual average
- 38 Gas Turbine: Particulate matter (10 microns or less) <= 0.02 lb/MMBTU. [40 CFR 52.21, LAC 33:III.509]
- Which Months: All Year Statistical Basis: Three-hour rolling average
- 39 Fuel sulfur content <= 0.8 % by weight (8000 ppmw) for any fuel burned. Subpart GG. [40 CFR 60.333(b)]
- Which Months: All Year Statistical Basis: None specified
- 40 CMS is not required. Shell shall monitor fuel per the requirements of custom schedule monitoring as approved by U.S. EPA per letter dated November 25, 2002. Shell shall establish the custom schedule monitoring for butene as fuel. Subpart GG. [40 CFR 60.334(h)(4)]

## **SPECIFIC REQUIREMENTS**

**AI ID:** 1136 - Shell Chemical Co - Geismar Plant

**Activity Number:** PER20050035

**Permit Number:** 2729-V1

**Air - Title V Regular Permit Renewal**

### **EQT554 721-99, Cogeneration Unit No. 2**

- 41 Submit quarterly excess emissions report: Due by the 30th day following the end of each calendar quarter. Report periods during which an exemption provided in 40 CFR 60.332(f) is in effect. Report the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated. Subpart GG. [40 CFR 60.334(j)(3)]
- 42 Include each period during which an exemption provided in 40 CFR 60.332(k) is in effect in the report required in 40 CFR 60.7(c). For each period, report the type, reasons, and duration of the firing of the emergency fuel. Subpart GG. [40 CFR 60.334(j)(4)]
- 43 Submit excess emissions reports and monitor downtime in accordance with 40 CFR 60.7(c). Report excess emissions for all periods of unit operation, including startup, shutdown and malfunction. Subpart GG. [40 CFR 60.334(j)]
- 44 Determine compliance using the test methods and procedures specified in 40 CFR 60.335(a) through (c). Subpart GG. [40 CFR 60.335]
- 45 Shell shall burn pipeline quality natural gas and butene as fuel in the Cogeneration Unit No. 2 and shall comply with the Custom Fuel Monitoring Schedule Conditions approved by U.S. EPA dated November 25, 2002. Shell shall comply with the following: a) shall conduct sample analysis twice per annum during the first and third quarter of each calendar year; b) should any sulfur analysis as required under 40 CFR 60.333(b), Shell shall notify the Office of Environmental Compliance, Enforcement Division. The custom schedule shall be re-examined. Sulfur content monitoring shall be conducted weekly during the interim period of custom schedule re-examination; Record of sample analysis and fuel supply pertinent to this custom schedule shall be retained for a period of three years and available for inspection by the Office of Environmental Compliance, Surveillance Division; and c) if there is a change in fuel supply or supplier, Shell shall sample the fuel daily for a period of two weeks to re-establish the sulfur content and indicate compliance with 40 CFR 60.333(b) and the custom schedule. Subpart Db. [40 CFR 60.40b]
- 46 Demonstrate the maximum design heat input capacity of the steam generating unit at this capacity for 24 hours. If the 24-hour average firing rate is less than the maximum design capacity provided by the manufacturer, use the 24-hour average firing rate to determine the capacity utilization rate, otherwise use the maximum design capacity provided by the manufacturer. Subpart Db. [40 CFR 60.45b(e)]
- 47 Determine compliance with the NOx standards in 40 CFR 60.44b through performance testing under 40 CFR 60.46b(e) or (f), or under 40 CFR 60.46b(g) or (h), as applicable. Subpart Db. [40 CFR 60.46b(c)]
- 48 Determine compliance with the NOx emission limit of 0.03 lb/MM BTU for Gas Turbine without the Duct Burner on a "steam generating unit operating day" average basis as defined in 40 CFR 60.41b (which means a 24-hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time in the steam generating unit and it is not necessary for fuel 1 to be combusted continuously for the entire 24-hour period) instead of the 30-day rolling average basis specified in 40 CFR 60.44b(i), to be determined downstream of SCR;
- Maintain records of fuel fired and NOx emissions, not to exceed 0.052 lb/MM BTU, for each duct burner on a "one-hour period" basis as defined in 40 CFR 60.2 (which means any 60-minute period commencing on the hour) and a "steam generating unit operating day" average basis instead of the records specified in 40 CFR 60.49b(d) and (g); and
- Report excess emissions in accordance with 40 CFR 60.49b(h) and (w) when NOx emissions exceed the 0.03 lb/MM BTU limit on a "steam generating unit operating day" average basis for the Gas Turbine and a 0.052 lb/MM BTU for the Gas Turbine and the Duct Burner combined. Subpart Db. [40 CFR 60.48b(g)(2)]

- 49 Operate NO<sub>x</sub> monitoring systems and record data during all periods of operation of the affected facility as approved under the requirements of 40 CFR 60.48b(g)(2). Subpart Db. [40 CFR 60.48b(g)(2)]
- 50 Comply with the provisions of 40 CFR 60.48b(b), (c), (d), (e)(2), (e)(3), and (f), or monitor steam generating unit operating conditions and predict nitrogen oxides emission rates as specified in a plan submitted pursuant to 60.49b(c). Subpart Db. [40 CFR 60.48b(g)]

### **FUG015 702-00, Fugitive Emissions**

- 51 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33.III.2111]

## **SPECIFIC REQUIREMENTS**

**AI ID:** 1136 - Shell Chemical Co - Geismar Plant

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### **FUG015      702-00, Fugitive Emissions**

52 As support units for a SOCMI facility and located in an Ozone Nonattainment Area, Shell shall comply with all the applicable requirements of LAC 33:III.2122 where applicable.  
[LAC 33:III.2122.F and G]

#### **GRP056      Cogeneration Unit**

- 53 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
- 54 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]
- 55 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 56 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]
- 57 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
- 58 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]
- 59 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]
- 60 Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, cis-2-Butene, trans-2-Butene, Ethylene, Propylene, Toluene, Xylene, m/p-Xylene, o-Xylene. (State Only). [LAC 33:III.501.C.6]
- 61 Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only). [LAC 33:III.501.C.6]
- 62 Formaldehyde <= 3.20 tons/yr. [LAC 33:III.501.C.6]
- 63 Toluene <= 0.01 tons/yr. [LAC 33:III.501.C.6]      Which Months: All Year      Statistical Basis: Annual maximum
- 64 Carbon monoxide <= 357.40 tons/yr. [LAC 33:III.501.C.6]      Which Months: All Year      Statistical Basis: Annual maximum
- 65 Nitrogen oxides <= 117.42 tons/yr. [LAC 33:III.501.C.6]      Which Months: All Year      Statistical Basis: Annual maximum
- 66 Sulfur dioxide <= 16.04 tons/yr. [LAC 33:III.501.C.6]      Which Months: All Year      Statistical Basis: Annual maximum
- 67 Particulate matter (10 microns or less) <= 91.80 tons/yr. [LAC 33:III.501.C.6]      Which Months: All Year      Statistical Basis: Annual maximum
- 68 VOC, Total <= 58.00 tons/yr. [LAC 33:III.501.C.6]      Which Months: All Year      Statistical Basis: Annual maximum

## SPECIFIC REQUIREMENTS

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### GRP056 Cogeneration Unit

- 69 Ammonia <= 87.12 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 70 n-Hexane <= 0.31 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 71 Xylene (mixed isomers) <= 0.01 tons/yr. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Annual maximum
- 72 Comply with the requirements of the Nonattainment New Source Review Program. This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-647(M-1). [LAC 33:III.504] (NNSR) from LAC 33:III.504. [LAC 33:III.504]
- 73 Comply with the requirements of PSD-LA-647(M-1). This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-647(M-1). [LAC 33:III.509]
- 74 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 75 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 76 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 77 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]
- 78 Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]
- 79 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]
- 80 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 81 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.5107.B.2]
- 82 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.5107.B.3]
- 83 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.i through viii. [LAC 33:III.5107.B.4]

## **SPECIFIC REQUIREMENTS**

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### **GRP056 Cogeneration Unit**

- 84 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 85 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 86 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112. Table 51.2. [LAC 33:III.5109.B]
- 87 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III. Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 88 Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:III.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]
- 89 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 90 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]
- 91 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 92 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 93 Provide emission testing facilities as specified in LAC 33:III.5113.B.4 through e. [LAC 33:III.5113.B.4]
- 94 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 95 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 96 Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 97 An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity. [LAC 33:III.5151.F.1.f]
- 98 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 99 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 100 Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 101 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 102 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 103 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]

## SPECIFIC REQUIREMENTS

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**Air - Title V Regular Permit Renewal**

### **GRP056 Cogeneration Unit**

- 104 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 105 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 106 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]
- 108 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]
- 109 Provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of emission limits. [LAC 33:III.913]
- 110 Where, upon written application of the responsible person or persons, the administrative authority finds that by reason of exceptional circumstances strict conformity with any provisions of these regulations would cause undue hardship, would be unreasonable, impractical or not feasible under the circumstances, the administrative authority may permit a variance from these regulations. [LAC 33:III.917.A]
- 111 No variance may permit or authorize the maintenance of a nuisance, or a danger to public health or safety. [LAC 33:III.917.B]
- 112 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 113 Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:I.Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:1.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases. [LAC 33:III.927]
- 114 No person or group of persons shall allow particulate matter or gases to become airborne in amounts which cause the ambient air quality standards to be exceeded. [LAC 33:III.929.A]
- 115 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 116 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]
- 117 Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M. [40 CFR 61.148]
- 118 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]
- 119 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A. [40 CFR 63]
- 120 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 121 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]

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### GRP056 Cogeneration Unit

- 122 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 123 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 124 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82.Subpart F]